COURSE OUTLINE

(1) GENERAL

SCHOOL	Medical				
ACADEMIC UNIT	Medical School				
LEVEL OF STUDIES	Graduate				
COURSE CODE	NEURO- 203		SEMESTER	2	
COURSE TITLE	Regenerative Pharmacology				
INDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits			WEEKLY TEACHING HOURS	CREDIT	S
Lectures, writing t	s, writing tests, students' presentations			3	
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).					
COURSE TYPE	Flective				
general background,	Liective				
special background, specialised general					
knowledge, skills development					
PREREQUISITE COURSES:	None				
LANGUAGE OF INSTRUCTION and	English				
EXAMINATIONS:					
IS THE COURSE OFFERED TO	Yes				
ERASMUS STUDENTS					
COURSE WEBSITE (URL)					

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing Learning Outcomes

The aim of the course is to introduce the students to the basic issues of regeneration and degeneration of the Nervous System and to the pharmacological approaches for the treatment of pathological disorders related to these processes. The cellular and molecular mechanisms involved in the processes of proliferation, differentiation and cell death of mature and progenitor nerve and glial cells, the signaling mechanisms during embryonic and adult neurogenesis and the pathological conditions related to these processes are analyzed. Finally, novel therapeutic approaches based on the aforementioned physiological processes are presented form the students.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information,

with the use of the necessary technology Adapting to new situations

Decision-making

Working independently Team work

Working in an international environment Working in an interdisciplinary environment

Production of new research ideas

Project planning and management
Respect for difference and multiculturalism

Respect for difference and multiculturalism
Respect for the natural environment

Showing social, professional and ethical responsibility and

sensitivity to gender issues Criticism and self-criticism

Production of free, creative and inductive thinking

Others...

Search for, analysis and synthesis of data and information, with the use of the necessary technology

Adapting to new situations

Decision-making

Working independently

Team work

Working in an international environment

Working in an interdisciplinary environment

Production of new research ideas

Project planning and management

Criticism and self-criticism

Production of free, creative and inductive thinking

(3) SYLLABUS

Neurogenesis and stem cells
Neurodegeneration and neuroregeneration
Adult neurogenesis and its role in neurodegenerative diseases
Hymne induced Dhymnetout stem cells and their clinical analizations
Human induced Pluripotent stem cells and their clinical applications
Students presentations
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Students presentations
Students presentations
Gr. 1. d. d. d.
Students presentations
Students presentations
Students presentations
Students presentations
Students presentations

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-Face Face-to-face, Distance learning, etc. USE OF INFORMATION AND UoC E-learn platform, communication with students COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students Semester workload TEACHING METHODS Activity The manner and methods of teaching are Lectures 12 described in detail. 144 Study and analysis of Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, bibliography, interactive tutorials, placements, clinical practice, art teaching workshop, interactive teaching, educational Writing tests 10 visits, project, essay writing, artistic creativity, The student's study hours for each learning activity are given as well as the hours of nondirected study according to the principles of the Course total *75* STUDENT PERFORMANCE **EVALUATION** The evaluation is performed in English language Description of the evaluation procedure Students prepare and present on a specific Language of evaluation, methods of evaluation, research question based on a research article or summative or conclusive, multiple choice review article. Examination is based on oral questionnaires, short-answer questions, openended questions, problem solving, written work, questions from the course leaders during the essay/report, oral examination, public presentation, laboratory work, clinical presentation. examination of patient, art interpretation, other The criteria and evaluation method are announced Specifically-defined evaluation criteria are given, and if and where they are accessible to students. during the 1st meeting of the course and posted

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography: Rang & Dale Pharmacology, review and research papers
- Related academic journals: Nature, Cell, Science, Pharmacology and Therapeutics, Neuropharmacology, Cell Stem Cell, Stem Cell Reports, npg Regenerative Medicine

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